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(54) Title: INTRAVENOUS NANOPARTICLES FOR TARGENTING DRUG DELIVERY AND SUSTAINED DRUG RELEASE

(57) Abstract: Provided are poly(lactic-co-glycolic acid) (PLGA) and poly(lactic acid) (PLA) nanoparticles that encapsulate a low molecular weight and water-soluble drug and can deliver the drug to target legion sites where the particles gradually release the drug over a prolonged period of time. The nanoparticles are prepared by allowing the low-molecular, water-soluble and non-peptide drug to interact with a metal ion so as to make the drug hydrophobic, encapsulating the hydrophobicized drug into PLGA or PLA nanoparticles, and allowing a surfactant to be adsorbed onto the surface of the particles.



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